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			KLINKEL, KORTNEY L	
FALLS CHURCH, VA 22040-0747			ART UNIT	PAPER NUMBER
			1615	
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Please find below and/or attached an Office communication concerning this application or proceeding.

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	Application No.	Applicant(s)		
	10/564,014	TORMO I BLASCO ET AL.		
Office Action Summary	Examiner	Art Unit		
	Kortney Klinkel	1615		
The MAILING DATE of this communication app Period for Reply	ears on the cover sheet with the c	orrespondence address		
A SHORTENED STATUTORY PERIOD FOR REPLY WHICHEVER IS LONGER, FROM THE MAILING DA - Extensions of time may be available under the provisions of 37 CFR 1.13 after SIX (6) MONTHS from the mailing date of this communication. - If NO period for reply is specified above, the maximum statutory period w - Failure to reply within the set or extended period for reply will, by statute, Any reply received by the Office later than three months after the mailing earned patent term adjustment. See 37 CFR 1.704(b).	ATE OF THIS COMMUNICATION 36(a). In no event, however, may a reply be tim vill apply and will expire SIX (6) MONTHS from cause the application to become ABANDONE	N. nely filed the mailing date of this communication. D (35 U.S.C. § 133).		
Status				
1) ☐ Responsive to communication(s) filed on 30 Ma 2a) ☐ This action is FINAL . 2b) ☐ This 3) ☐ Since this application is in condition for allowar closed in accordance with the practice under E	action is non-final. nce except for formal matters, pro			
Disposition of Claims				
4) Claim(s) 1-11 is/are pending in the application. 4a) Of the above claim(s) 6,7 and 11 is/are with 5) Claim(s) is/are allowed. 6) Claim(s) 1-5 and 8-10 is/are rejected. 7) Claim(s) 6,7 and 11 is/are objected to. 8) Claim(s) are subject to restriction and/or Application Papers 9) The specification is objected to by the Examine	ndrawn from consideration.			
10) The drawing(s) filed on is/are: a) access applicant may not request that any objection to the confidence of Replacement drawing sheet(s) including the correction in the confidence of	drawing(s) be held in abeyance. See ion is required if the drawing(s) is obj	e 37 CFR 1.85(a). lected to. See 37 CFR 1.121(d).		
Priority under 35 U.S.C. § 119				
 12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) All b) Some * c) None of: 1. Certified copies of the priority documents have been received. 2. Certified copies of the priority documents have been received in Application No 3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received. 				
Attachment(s) 1) Notice of References Cited (PTO-892) 2) Notice of Draftsperson's Patent Drawing Review (PTO-948) 3) Information Disclosure Statement(s) (PTO/SB/08) Paper No(s)/Mail Date 1/10/2006.	4) Interview Summary Paper No(s)/Mail Da 5) Notice of Informal P 6) Other:	nte		

DETAILED ACTION

Claims

Claims 1-11 are pending in the instant Office action.

Information Disclosure Statement

Acknowledgement is made of applicant's submitting an information disclosure statement on January 10, 2006. DE-2556747 and DE-2752096 were not in English and were therefore not considered. With these exceptions, the submission is in compliance with the provisions of 37 CFR 1.97. Accordingly, the information disclosure statement has been considered by the examiner.

Foreign Priority

Acknowledgement is made of applicant's foreign priority claims to German patent applications 10331452.0 and 10332432.1, July 10, 2003 and July 16, 2003 respectively. Receipt is acknowledged of papers submitted under 35 U.S.C. 119(a)-(d), which papers have been placed of record in the file.

Claim Objections

Claims 6-7 and 11 are objected to under 37 CFR 1.75(c) as being in improper form because a multiple dependent claim should refer to other claims in the alternative only. See MPEP § 608.01(n). Accordingly, the claims 6-7 and 11 have not been further treated on the merits.

Claim Rejections - 35 USC § 112

The following is a quotation of the second paragraph of 35 U.S.C. 112:

The specification shall conclude with one or more claims particularly pointing out and distinctly claiming the subject matter which the applicant regards as his invention.

Claims 2-5, and 8-10 are rejected under 35 U.S.C. 112, second paragraph, as being indefinite for failing to particularly point out and distinctly claim the subject matter which applicant regards as the invention.

Independent claim 2, and therefore, dependent claims 3 and 9, recite the compound of the formula I and the compound of the formula II. There is insufficient antecedent basis for this limitation in the claim.

Dependent claims 4 and 5 recite the limitation the compound I and the compound II or the compounds I and II. There is insufficient antecedent basis for this limitation in the claims. This rejection can be overcome by inserting the words "of formula" between compound and the Roman numeral I or II.

Dependent claims 5 recites the limitation "applied simultaneously, that is jointly or separately, or in succession". Claim 5 is internally inconsistent because its parent claim, claim 1, indicates that compounds of formula I and II are in admixture. A mixture does not allow for separate or successive application of ingredients contained therein. There is insufficient antecedent basis for this limitation in the claims.

Claim 10 provides for the use of the compounds I and II, but, since the claim does not set forth any steps involved in the method/process, it is unclear what method/process applicant is intending to encompass. A claim is indefinite where it

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merely recites a use without any active, positive steps delimiting how this use is actually

practiced.

Claim Rejections - 35 USC § 101

35 U.S.C. 101 reads as follows:

Whoever invents or discovers any new and useful process, machine, manufacture, or composition of matter, or any new and useful improvement thereof, may obtain a patent therefor, subject to the conditions and requirements of this title.

Claim 10 is rejected under 35 U.S.C. 101 because the claimed invention is

directed to non-statutory subject matter.

Claim 10 provides for the use of the compounds I and II...for preparing a

composition suitable for controlling harmful fungi, but, since the claim does not set forth

any steps involved in the method/process, it is unclear what method/process applicant

is intending to encompass. A claim is indefinite where it merely recites a use without

any active, positive steps delimiting how this use is actually practiced.

Claim 10 is rejected under 35 U.S.C. 101 because the claimed recitation of a

use, without setting forth any steps involved in the process, results in an improper

definition of a process, i.e., results in a claim which is not a proper process claim under

35 U.S.C. 101. See for example *Ex parte Dunki*, 153 USPQ 678 (Bd.App. 1967) and

Clinical Products, Ltd. v. Brenner, 255 F. Supp. 131, 149 USPQ 475 (D.D.C. 1966).

Claim Rejections - 35 USC § 103

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all

obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

The factual inquiries set forth in *Graham* v. *John Deere Co.*, 383 U.S. 1, 148 USPQ 459 (1966), that are applied for establishing a background for determining obviousness under 35 U.S.C. 103(a) are summarized as follows:

- 1. Determining the scope and contents of the prior art.
- 2. Ascertaining the differences between the prior art and the claims at issue.
- 3. Resolving the level of ordinary skill in the pertinent art.
- 4. Considering objective evidence present in the application indicating obviousness or nonobviousness.

This application currently names joint inventors. In considering patentability of the claims under 35 U.S.C. 103(a), the examiner presumes that the subject matter of the various claims was commonly owned at the time any inventions covered therein were made absent any evidence to the contrary. Applicant is advised of the obligation under 37 CFR 1.56 to point out the inventor and invention dates of each claim that was not commonly owned at the time a later invention was made in order for the examiner to consider the applicability of 35 U.S.C. 103(c) and potential 35 U.S.C. 102(e), (f) or (g) prior art under 35 U.S.C. 103(a).

Claims 1-5 and 8-10 are rejected under 35 U.S.C. 103(a) as being unpatentable over Pees et al. (WO 98/46607, as per Applicant's IDS) in further view of Cotter et al. (EP 0988790, as per Applicant's IDS).

Applicants claim a fungicidal mixture which comprises the triazolopyrimidine derivative of formula I and fenpropimorph of formula II in a synergistically effective amount.

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Pees et al. teach triazolopyrimidine derivatives of formula I (instant formula I, see page 3, lines 5-15 and Example 2 on page 20 for preferred compound of instant claim 1) to have enhanced systemic activity and enhanced fungicitoxity against rice diseases and powdery mildews (page 7, lines 8-11), namely for the control of phytopathogenic fungi such as Altemaria solani, Botrytis cinerea, Cercospora beticola, Cladosporium herbarum, Corticium rolfsfi, Erysiphe grarninis, Helminthosporium tritici repentis, Leptosphaeria nodorum, Micronectriella nivalis, Monilinia fructigena, Mycosphaerella ligulicola, Mycosphaereila pinodes, Pyricularia grisea f. sp. Oryzae, Rhizoctonia solani and Sclerotinia sclerotiorum, Uncinula necator, in particular for the control of Uncinula necator (page 7 lines 13-19). Note particularly page 17, line 7 to page 19, line 2; especially page 17, line 19-22 states, "These mixtures of fungicides can have a broader spectrum of activity than the compound of general formula I [the triazolopyrimidine] alone. Furthermore, the other fungicide can have a synergistic effect on the fungicidal activities of the compound of general formula I." Pees discloses fenpropimorph, (page 18, line 1) as one of the possible other fungicides that can show a synergistic effect with the triazolopyrimidine derivative of question.

Pees also teaches the use of the triazolopyrimidines as a fungicidal composition comprising the triazolopyrimidine derivative in the instant application and also said triazolopyrimidine alone or in admixture with multiple active ingredients (page 12, lines 3-6 and 9-10 respectively) further comprising a liquid or solid carrier (page 12, lines 19-21), this reads on instant claim 3. Pees also discloses the method of using the above mentioned fungicidal mixture to treat the fungi, soil, peat, plants, seeds etc. (page 19,

lines 3-12) which reads on instant claims 4-5 and 8-9. With respect to claim 8 which recites wherein the harmful fungus is *Corticium sasakii* in particular, Pees is silent. However, Pees teaches the only required active method step of this claim, namely teating the fungi, their habitat or the plants, the soil or the seeds with an effective amount of the synergistic fungicidal mixture. Furthermore, Pees teaches the control of *Corticium rolfsii*, a fungi of the same genus as claimed and the synergistic mixtures taught by Pees have a broad spectrum of activity.

Pees also teaches that the dose of fungicidal composition ranges from 0.01 to 10 kg of active ingredient per hectare (page 15, line 12). This equates to a range of 10 to 10,000 g/ha. This range of dosage amounts overlaps with the range disclosed by Applicant in claim 6 (withdrawn for being in improper form) as well as the amount applied in claims 7 (withdrawn for being in improper form) and 9 to seeds. In the case where the claimed ranges overlap or lie inside ranges disclosed by the prior art, a *prima facie* case of obviousness exists, see MPEP 2144.05. It would be within the purview of one of ordinary skill in the art to determine the necessary amounts of a particular fungicidal mixture necessary to exhibit maximum fungicidal effects in controlling harmful fungi at a particular locus of interest.

The teachings of Pees differ from the instant invention in that Pees does not explicitly teach the combination of the triazolopyrimidine with fenpropimorph, but rather suggests the possibility of this combination from a *finite* list. However, it would have been obvious to use fenpropimorph in combination with the instant triazolopyrimidine to one of ordinary skill in the art at the time of the instant invention with a reasonable

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expectation of success because fenpropimorph is listed with a finite number of identified, predicable solutions.

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Additionally, Cotter teaches the fungicidal properties of fenpropimorph as well as synergistic properties of fenpropimorph in combination with various triazolopyrimidines, including the triazolopyrimidine compound of the instant invention (claims 1-2, 4, wherein R^1 and R^2 together form C_6 -alkylene). Cotter also teaches the combination of triazolopyrimidines with strobilurine derivatives as well as metconazole, propiconazole and tebuconazole (claims 2 and 3). The synergistic fungicidal mixtures taught by Cotter are effective against a broad range of phytopathogentic fungi. Example 1, including Table I illustrate the synergistic effect of fenpropimorph in combination with azolopyrimidine A (which differs from the instant triazolopyrimidine in the halogenation of the phenyl ring) against different fungi. Table I also teaches various dosage rates and ratios, the amounts of which are measured in ppm. These ratios fall within those claimed by applicants. It is within the capability of one of ordinary skill in the art to determine the necessary concentrations of a particular fungicide or fungicidal mixture necessary to exhibit maximum fungicidal effects in controlling harmful fungi.

It would have been *prima facie* obvious to one of ordinary skill in the art at the time of the instant invention to combine the teachings of the two references to develop the fungicidal mixtures claimed in the instant application with a reasonable expectation for success. Pees teach that triazolopyrimidines are functional as fungicides and also show synergy when used in combination with other known fungicides. Likewise, Cotter teach that fenpropimorph is a known fungicide and it is also known to show a synergistic

effect in combination with triazolopyrimidines. "It is *prima facie* obvious to combine two compositions each of which is taught by the prior art to be useful for the same purpose, in order to form a third composition to be used for the very same purpose.... [T]he idea of combining them flows logically from their having been individually taught in the prior art." *In re Kerkhoven*, 626 F.2d 846, 850, 205 USPQ 1069, 1072 (CCPA 1980).

Applicant's data in the specification has been considered. Because both Pees and Cotter show synergistic effects with triazolopyrimidines and fenpropimorph respectively in combination with a large number of other known fungicides, there is a high expectation of synergy in the instant claimed combination. It could be reasonably argued that in most cases, additive or better than additive results should be expected for the combination of such fungicides to one of ordinary skill in the art. For the reason outlined above, claims 1-5 and 8-10 are deemed *prima facie* obvious in light of the teachings of the prior art and rejection under 35 U.S.C. § 103 is appropriate.

Conclusion

Claims 1-5 and 8-10 are rejected. No claim is allowed.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Kortney Klinkel, Ph.D. whose telephone number is (571)270-5239. The examiner can normally be reached on Monday-Friday 8am to 5pm.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Michael Woodward can be reached at (571)272-8373. The fax phone

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number for the organization where this application or proceeding is assigned is 571-

273-8300.

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KLK

/MP WOODWARD/ Supervisory Patent Examiner, Art Unit 1615